SUBJECT INDEX

Absorption
Experimental Study of Durability of Reactive Powder Concretes, N. Roux, C. Andrade and M. A. Sanjuan, MT Feb. 96, p1-6.

Admixtures
Experimental Study of Durability of Reactive Powder Concretes, N. Roux, C. Andrade and M. A. Sanjuan, MT Feb. 96, p1-6.

Investigation of Lignite-Based Bottom Ash for Structural Concrete, Nader Ghafoori and Jeffrey Bucholc, MT Aug. 96, p128-137.

Aggregate gradation
Performance of Hot Mix Asphalt Using Coarse and Skip Graded Aggregates, Moses Karakouzian, Michael R. Dunning, Robert L. Dunning and Jerold D. Stegeman, MT May 96, p101-107.

Aggregates
Composite Action of Foamed and Lightweight Aggregate Concrete, Yasser M. Hunaiti, MT Aug. 96, p111-113.

Investigation of Lignite-Based Bottom Ash for Structural Concrete, Nader Ghafoori and Jeffrey Bucholc, MT Aug. 96, p128-137.

Performance of Hot Mix Asphalt Using Coarse and Skip Graded Aggregates, Moses Karakouzian, Michael R. Dunning, Robert L. Dunning and Jerold D. Stegeman, MT May 96, p101-107.

Aging
Laboratory Aging Methods for Simulation of Field Aging of Asphalts, Shin-Che Huang, Mang Tia and Byron E. Ruth, MT Aug. 96, p147-152.

Air entrainment
Frost Resistance of Roller-Compacted High-Volume Fly Ash Concrete, Michael Pigeon and V. Mohan Malhotra, MT Nov. 95, p208-211.

Airfields
Moisture-Induced Pressures in Concrete Airfield Pavements, C. A. Kodres, MT Feb. 96, p41-50.

ASCE Publications
Editorial, Victor C. Li, MT Nov. 96, p183.

Asphalt cement
Viscosity Characteristics of Rubber-Modified Asphalts, T. J. Lougheed and A. T. Papagiannakis, MT Aug. 96, p153-156.

Asphalt mix design
Mechanistic Evaluation of Fly Ash Asphalt Concrete Mixtures, N. Ali, J. S. Chan, S. Simms, R. Bushman and A. T. Bergan, MT Feb. 96, p19-25.

Performance of Hot Mix Asphalt Using Coarse and Skip Graded Aggregates, Moses Karakouzian, Michael R. Dunning, Robert L. Dunning and Jerold D. Stegeman, MT May 96, p101-107.

Asphalts
Laboratory Aging Methods for Simulation of Field Aging of Asphalts, Shin-Che Huang, Mang Tia and Byron E. Ruth, MT Aug. 96, p147-152.

Significance of Tests for Highway Materials, E. Ray Brown, P. S. "Ken" Kandhal, Dah Yinn Lee and K. Wayne Lee, MT Feb. 96, p26-40.

Axial compression
New Damage Variable in Failure Analysis of Concrete, Woon-Kwong Yip, MT Nov. 96, p184-188.

Bentonite
Flash-Setting Lightweight Material—A First Step to Floating Island Construction, Sumio Horiuchi, Noburu Uchiyama, Takuro Odawara and Kazuya Yasuhara, MT Aug. 96, p138-146.

Bitumen
Significance of Tests for Highway Materials, E. Ray Brown, P. S. "Ken" Kandhal, Dah Yinn Lee and K. Wayne Lee, MT Feb. 96, p26-40.

Bonding
Influence of Coatings on Bar-Concrete Bond, Protasio F. Castro, MT Nov. 96, p212-214.

Bonding strength
Bond and Slip of Plain Rebars in Concrete, Y. L. Mo and J. Chan, MT Nov. 96, p208-211.

Composite Action of Foamed and Lightweight Aggregate Concrete, Yasser M. Hunaiti, MT Aug. 96, p111-113.

Performance of Repair Materials Exposed to Fluctuation of Temperature, A. S. Al-Gahtani, Rasheeduzzafar and A. A. Al-Mussallam, MT Feb. 95, p9-18.

Bottom ash
Investigation of Lignite-Based Bottom Ash for Structural Concrete, Nader Ghafoori and Jeffrey Bucholc, MT Aug. 96, p128-137.

Bridge construction
Nonstructural Evaluation of Competing Bridge Materials, Robert L. Smith and Robert J. Bush, MT May 96, p88-93.

Buckling
Buckling Behavior of Polyethylene Liner System, Surya Chunduru, Michael E. Barber and Reda M. Bakeer, MT Nov. 96, p201-206.

Carbon dioxide
Effect of Temperature and Salt Contamination on Carbonation of Cements, Mohammed Maslehuddin, C. L. Page and Rasheeduzzafar, MT May 96, p63-69.

Carbonation
Effect of Temperature and Salt Contamination on Carbonation of Cements, Mohammed Maslehuddin, C. L. Page and Rasheeduzzafar, MT May 96, p63-69.

Case reports
Performance of Hot Mix Asphalt Using Coarse and Skip Graded Aggregates, Moses Karakouzian, Michael R. Dunning, Robert L. Dunning and Jerold D. Stegeman, MT May 96, p101-107.

Cements
Effect of Temperature and Salt Contamination on Carbonation of Cements, Mohammed Maslehuddin, C. L. Page and Rasheeduzzafar, MT May 96, p63-69.

Flash-Setting Lightweight Material—A First Step to Floating Island Construction, Sumio Horiuchi, Noburu Uchiyama, Takuro Odawara and Kazuya Yasuhara, MT Aug. 96, p138-146.

Microstructural and Phase Characteristics of Phosphogypsum-Cement Mixtures, Amitava Roy, Ramesh Kalvakaalva and Roger K. Seals, MT Feb. 96, p11-18.

Performance of Repair Materials Exposed to Fluctuation of Temperature, A. S. Al-Gahtani, Rasheeduzzafar and A. A. Al-Mussallam, MT Feb. 95, p9-18.

Resilient Modulus of Cement-Stabilized Phosphogypsum, M. I. Pericleous and J. B. Metcalf, MT Feb. 96, p7-10.

Chlorides
Boltzmann-Matano Analysis of Chloride Diffusion into Blended Cement Concrete, P. J. Tumidajski and G. W. Chan, MT Nov. 96, p195-200.

Civil engineers
Nonstructural Evaluation of Competing Bridge Materials, Robert L. Smith and Robert J. Bush, MT May 96, p88-93.

Cladding
Mathematical Model for Durability of Cladding, K. D. Hjelmstad, D. A. Lange, I. D. Parsons and F. V. Lawrence, MT Aug. 96, p172-174.

Coefficients
AASHTO Layer Coefficients for Cement-Stabilized Soil Bases, David N. Richardson, MT May 96, p83-87.

Cold-formed steel
Effect of Temperature and Galvanization on Cold-Formed Steel, A. B. Abdel-Rahim and D. Polyzois, MT Aug. 96, p114-122.

Composite structures
Composite Action of Foamed and Lightweight Aggregate Concrete, Yasser M. Hunaiti, MT Aug. 96, p111-113.

Compression
Behavior of Marble under Compression, C.-T. Chang, P. Monteiro, K. Nemati and K. Shyu, MT Aug. 96, p157-170.

Stress-Strain Relationship of High-Strength Concrete in Compression, T. H. Wee, M. S. Chin and M. A. Mansur, MT May 96, p70-76.

Compression tests
Compression Strength of Pultruded Flat Sheet Material, J. T. Mottram, MT May 94, p185-200.

Compressive strength
AASHTO Layer Coefficients for Cement-Stabilized Soil Bases, David N. Richardson, MT May 96, p83-87.

Compression Strength of Pultruded Flat Sheet Material, J. T. Mottram, MT May 94, p185-200.

Flash-Setting Lightweight Material—A First Step to Floating Island Construction, Sumio Horiuchi, Noburu Uchiyama, Takuro Odawara and Kazuya Yasuhara, MT Aug. 96, p138-146.

Concrete
Boltzmann-Matano Analysis of Chloride Diffusion into Blended Cement Concrete, P. J. Tumidajski and G. W. Chan, MT Nov. 96, p195-200.

Composite Action of Foamed and Lightweight Aggregate Concrete, Yasser M. Hunaiti, MT Aug. 96, p111-113.

Experimental Observation of Microstructural Behavior of Concrete, Ahmed M. Farahat, Masashi Kawakami and Tada-aki Tanabe, MT May 95, p87-95.

Investigation of Lignite-Based Bottom Ash for Structural Concrete, Nader Ghafoori and Jeffrey Bucholc, MT Aug. 96, p128-137.

Moisture-Induced Pressures in Concrete Airfield Pavements, C. A. Kodres, MT Feb. 96, p41-50.

New Damage Variable in Failure Analysis of Concrete, Woon-Kwong Yip, MT Nov. 96, p184-188.

Concrete pavements
Moisture-Induced Pressures in Concrete Airfield Pavements, C. A. Kodres, MT Feb. 96, p41-50.

Concrete, precast
Bond and Slip of Plain Rebars in Concrete, Y. L. Mo and J. Chan, MT Nov. 96, p208-211.

Concrete, prestressed
Nonstructural Evaluation of Competing Bridge Materials, Robert L. Smith and Robert J. Bush, MT May 96, p88-93.

Concrete, reinforced
Effect of Reinforcement Corrosion on Flexural Behavior of Concrete Slabs, Abdullah A. Almusallam, Ahmad S. Al-Gahtani, Abdur Rauf Aziz, Fahd H. Dakhil and Rasheeduzzafar, MT Aug. 96, p123-127.

Influence of Coatings on Bar-Concrete Bond, Protasio F. Castro, MT Nov. 96, p212-214.

Nonstructural Evaluation of Competing Bridge Materials, Robert L. Smith and Robert J. Bush, MT May 96, p88-93.

Resistance of Silica-Fume Concrete to Corrosion-Related Damage, Safwan A. Khedr and Ahmed F. Idriss, MT May 95, p102-107.

Concretes
Experimental Study of Durability of Reactive Powder Concretes, N. Roux, C. Andrade and M. A. Sanjuan, MT Feb. 96, p1-6.

Contamination
Effect of Temperature and Salt Contamination on Carbonation of Cements, Mohammed Maslehuddin, C. L. Page and Rasheeduzzafar, MT May 96, p63-69.

Cooling
Mechanical Properties of Reinforcing and Prestressing Steels after Heating, I. Cabrita Neves, João Paulo C. Rodrigues and António de Pádua Loureiro, MT Nov. 96, p189-194.

Corrosion
Effect of Reinforcement Corrosion on Flexural Behavior of Concrete Slabs, Abdullah A. Almusallam, Ahmad S. Al-Gahtani, Abdur Rauf Aziz, Fahd H. Dakhil and Rasheeduzzafar, MT Aug. 96, p123-127.

Experimental Study of Durability of Reactive Powder Concretes, N. Roux, C. Andrade and M. A. Sanjuan, MT Feb. 96, p1-6.

Resistance of Silica-Fume Concrete to Corrosion-Related Damage, Safwan A. Khedr and Ahmed F. Idriss, MT May 95, p102-107.

Crack propagation
Behavior of Marble under Compression, C.-T. Chang, P. Monteiro, K. Nemati and K. Shyu, MT Aug. 96, p157-170.

Cracking
Behavior of Marble under Compression, C.-T. Chang, P. Monteiro, K. Nemati and K. Shyu, MT Aug. 96, p157-170.

New Damage Variable in Failure Analysis of Concrete, Woon-Kwong Yip, MT Nov. 96, p184-188.

Cracks

Experimental Observation of Microstructural Behavior of Concrete, Ahmed M. Farahat, Masashi Kawakami and Tada-aki Tanabe, MT May 95, p87-95.

Creep

Shear Properties of Components Used in Stressed-Skin Panels, I. Robert Kliger and Patrick J. Pellicane, MT May 96, p77-82.

Damage

New Damage Variable in Failure Analysis of Concrete, Woon-Kwong Yip, MT Nov. 96, p184-188.

Damage accumulation

New Damage Variable in Failure Analysis of Concrete, Woon-Kwong Yip, MT Nov. 96, p184-188.

Decision making

Nonstructural Evaluation of Competing Bridge Materials, Robert L. Smith and Robert J. Bush, MT May 96, p88-93.

Deflection

Effect of Reinforcement Corrosion on Flexural Behavior of Concrete Slabs, Abdullah A. Almusallam, Ahmad S. Al-Gahtani, Abdur Rauf Aziz, Fahd H. Dakhil and Rasheeduzzafar, MT Aug. 96, p123-127.

Degradation

Mathematical Model for Durability of Cladding, K. D. Hjelmstad, D. A. Lange, I. D. Parsons and F. V. Lawrence, MT Aug. 96, p172-174.

Diffusion

Boltzmann-Matano Analysis of Chloride Diffusion into Blended Cement Concrete, P. J. Tumidajski and G. W. Chan, MT Nov. 96, p195-200.

Viscosity Characteristics of Rubber-Modified Asphalts, T. J. Lougheed and A. T. Papagiannakis, MT Aug. 96, p153-156.

Diffusion coefficient

Boltzmann-Matano Analysis of Chloride Diffusion into Blended Cement Concrete, P. J. Tumidajski and G. W. Chan, MT Nov. 96, p195-200.

Ductility

Effect of Reinforcement Corrosion on Flexural Behavior of Concrete Slabs, Abdullah A. Almusallam, Ahmad S. Al-Gahtani, Abdur Rauf Aziz, Fahd H. Dakhil and Rasheeduzzafar, MT Aug. 96, p123-127.

Effect of Temperature and Galvanization on Cold-Formed Steel, A. B. Abdel-Rahim and D. Polyzois, MT Aug. 96, p114-122.

Economic impact

Editorial, Victor C. Li, MT Nov. 96, p183.

Environmental effects

Mathematical Model for Durability of Cladding, K. D. Hjelmstad, D. A. Lange, I. D. Parsons and F. V. Lawrence, MT Aug. 96, p172-174.

Environmental impacts

Editorial, Victor C. Li, MT Nov. 96, p183.

Epoxy coatings

Influence of Coatings on Bar-Concrete Bond, Protasio F. Castro, MT Nov. 96, p212-214.

Experimentation

Stress-Strain Relationship of High-Strength Concrete in Compression, T. H. Wee, M. S. Chin and M. A. Mansur, MT May 96, p70-76.

Failures

New Damage Variable in Failure Analysis of Concrete, Woon-Kwong Yip, MT Nov. 96, p184-188.

Fatigue

Experimental Study of Durability of Reactive Powder Concretes, N. Roux, C. Andrade and M. A. Sanjuan, MT Feb. 96, p1-6.

Investigation of Lignite-Based Bottom Ash for Structural Concrete, Nader Ghafoori and Jeffrey Bucholc, MT Aug. 96, p128-137.

Mathematical Model for Durability of Cladding, K. D. Hjelmstad, D. A. Lange, I. D. Parsons and F. V. Lawrence, MT Aug. 96, p172-174.

Fills

Composite Action of Foamed and Lightweight Aggregate Concrete, Yasser M. Hunaiti, MT Aug. 96, p111-113.

Flexural strength

Effect of Reinforcement Corrosion on Flexural Behavior of Concrete Slabs, Abdullah A. Almusallam, Ahmad S. Al-Gahtani, Abdur Rauf Aziz, Fahd H. Dakhil and Rasheeduzzafar, MT Aug. 96, p123-127.

Floating structures

Flash-Setting Lightweight Material—A First Step to Floating Island Construction, Sumio Horiuchi, Noburu Uchiyama, Takuro Odawara and Kazuya Yasuhara, MT Aug. 96, p138-146.

Fly ash

Boltzmann-Matano Analysis of Chloride Diffusion into Blended Cement Concrete, P. J. Tumidajski and G. W. Chan, MT Nov. 96, p195-200.

Frost Resistance of Roller-Compacted High-Volume Fly Ash Concrete, Michael Pigeon and V. Mohan Malhotra, MT Nov. 95, p208-211.

Mechanistic Evaluation of Fly Ash Asphalt Concrete Mixtures, N. Ali, J. S. Chan, S. Simms, R. Bushman and A. T. Bergan, MT Feb. 96, p19-25.

Formwork, construction

Investigation of Structural Properties of Used Formwork Stringers, Saeed Karshenas and Eyad Mizian, MT Feb. 96, p51-56.

Frost penetration

Frost Resistance of Roller-Compacted High-Volume Fly Ash Concrete, Michael Pigeon and V. Mohan Malhotra, MT Nov. 95, p208-211.

Glass

Flash-Setting Lightweight Material—A First Step to Floating Island Construction, Sumio Horiuchi, Noburu Uchiyama, Takuro Odawara and Kazuya Yasuhara, MT Aug. 96, p138-146.

Gypsum

Microstructural and Phase Characteristics of Phosphogypsum-Cement Mixtures, Amitava Roy, Ramesh Kalvakaalva and Roger K. Seals, MT Feb. 96, p11-18.

Heat treatment

Mechanical Properties of Reinforcing and Prestressing Steels after Heating, I. Cabrita Neves, João Paulo C. Rodrigues and António de Pádua Loureiro, MT Nov. 96, p189-194.

High strength concretes

Stress-Strain Relationship of High-Strength Concrete in Compression, T. H. Wee, M. S. Chin and M. A. Mansur, MT May 96, p70-76.

Highways

Significance of Tests for Highway Materials, E. Ray Brown, P. S. "Ken" Kandhal, Dah Yinn Lee and K. Wayne Lee, MT Feb. 96, p26-40.

Hollow sections

Composite Action of Foamed and Lightweight Aggregate Concrete, Yasser M. Hunaiti, MT Aug. 96, p111-113.

Humidity

Effect of Temperature and Salt Contamination on Carbonation of Cements, Mohammed Maslehuddin, C. L. Page and Rasheeduzzafar, MT May 96, p63-69.

Image analysis

Behavior of Marble under Compression, C.-T. Chang, P. Monteiro, K. Nemati and K. Shyu, MT Aug. 96, p157-170.

Impact

Effect of Temperature and Galvanization on Cold-Formed Steel, A. B. Abdel-Rahim and D. Polyzois, MT Aug. 96, p114-122.

Industrial relations

Editorial, Victor C. Li, MT Nov. 96, p183.

Industrial wastes

Microstructural and Phase Characteristics of Phosphogypsum-Cement Mixtures, Amitava Roy, Ramesh Kalvakaalva and Roger K. Seals, MT Feb. 96, p11-18.

Resilient Modulus of Cement-Stabilized Phosphogypsum, M. I. Pericleous and J. B. Metcalf, MT Feb. 96, p7-10.

Infrastructure

Editorial, Victor C. Li, MT Nov. 96, p183.

Joints, bonded

Shear Properties of Components Used in Stressed-Skin Panels, I. Robert Kliger and Patrick J. Pellicane, MT May 96, p77-82.

Laboratory tests

Effect of Welding on a High-Density Polyethylene Liner, Reda M. Bakeer and Michael E. Barber, MT May 96, p94-100.

Frost Resistance of Roller-Compacted High-Volume Fly Ash Concrete, Michael Pigeon and V. Mohan Malhotra, MT Nov. 95, p208-211.

Laboratory Aging Methods for Simulation of Field Aging of Asphalts, Shin-Che Huang, Mang Tia and Byron E. Ruth, MT Aug. 96, p147-152.

Mechanical Properties of Reinforcing and Prestressing Steels after Heating, I. Cabrita Neves, João Paulo C. Rodrigues and António de Pádua Loureiro, MT Nov. 96, p189-194.

Lateral loads

Shear Properties of Components Used in Stressed-Skin Panels, I. Robert Kliger and Patrick J. Pellicane, MT May 96, p77-82.

Limestone

Artificial Neural Networks and Durability of Sphinx Limestone, Jayanta K. Bandyopadhyay, Srinivas S. Yerrapragada and K. Lal Gauri, MT Aug. 95, p174-177.

Liners

Effect of Welding on a High-Density Polyethylene Liner, Reda M. Bakeer and Michael E. Barber, MT May 96, p94-100.

Load tests

Experimental Observation of Microstructural Behavior of Concrete, Ahmed M. Farahat, Masashi Kawakami and Tada-aki Tanabe, MT May 95, p87-95.

Marble

Behavior of Marble under Compression, C.-T. Chang, P. Monteiro, K. Nemati and K. Shyu, MT Aug. 96, p157-170.

Materials

Editorial, Victor C. Li, MT Nov. 96, p183.

Nonstructural Evaluation of Competing Bridge Materials, Robert L. Smith and Robert J. Bush, MT May 96, p88-93.

Significance of Tests for Highway Materials, E. Ray Brown, P. S. "Ken" Kandhal, Dah Yinn Lee and K. Wayne Lee, MT Feb. 96, p26-40.

Materials engineering

Editorial, Victor C. Li, MT Nov. 96, p183.

Materials, properties

Investigation of Structural Properties of Used Formwork Stringers, Saeed Karshenas and Eyad Mizian, MT Feb. 96, p51-56.

Materials testing

Significance of Tests for Highway Materials, E. Ray Brown, P. S. "Ken" Kandhal, Dah Yinn Lee and K. Wayne Lee, MT Feb. 96, p26-40.

Mathematical models

Mathematical Model for Durability of Cladding, K. D. Hjelmstad, D. A. Lange, I. D. Parsons and F. V. Lawrence, MT Aug. 96, p172-174.

Moisture-Induced Pressures in Concrete Airfield Pavements, C. A. Kodres, MT Feb. 96, p41-50.

Mechanical properties

Effect of Temperature and Galvanization on Cold-Formed Steel, A. B. Abdel-Rahim and D. Polyzois, MT Aug. 96, p114-122.

Mechanical Properties of Reinforcing and Prestressing Steels after Heating, I. Cabrita Neves, João Paulo C. Rodrigues and António de Pádua Loureiro, MT Nov. 96, p189-194.

Mechanistic Evaluation of Fly Ash Asphalt Concrete Mixtures, N. Ali, J. S. Chan, S. Simms, R. Bushman and A. T. Bergan, MT Feb. 96, p19-25.

Microstructure

Behavior of Marble under Compression, C.-T. Chang, P. Monteiro, K. Nemati and K. Shyu, MT Aug. 96, p157-170.

Effect of Temperature and Salt Contamination on Carbonation of Cements, Mohammed Maslehuddin, C. L. Page and Rasheeduzzafar, MT May 96, p63-69.

Experimental Observation of Microstructural Behavior of Concrete, Ahmed M. Farahat, Masashi Kawakami and Tada-aki Tanabe, MT May 95, p87-95.

Microstructural and Phase Characteristics of Phosphogypsum-Cement Mixtures, Amitava Roy, Ramesh Kalvakaalva and Roger K. Seals, MT Feb. 96, p11-18.

Mixing
Resistance of Silica-Fume Concrete to Corrosion-Related Damage, Safwan A. Khedr and Ahmed F. Idriss, MT May 95, p102-107.

Modulus of elasticity
Investigation of Structural Properties of Used Formwork Stringers, Saeed Karshenas and Eyad Mizian, MT Feb. 96, p51-56.

Moisture
Moisture-Induced Pressures in Concrete Airfield Pavements, C. A. Kodres, MT Feb. 96, p41-50.

Mortars
Experimental Observation of Microstructural Behavior of Concrete, Ahmed M. Farahat, Masashi Kawakami and Tada-aki Tanabe, MT May 95, p87-95.

Neural networks
Artificial Neural Networks and Durability of Sphinx Limestone, Jayanta K. Bandyopadhyay, Srinivas S. Yerrapragada and K. Lal Gauri, MT Aug. 95, p174-177.

Panels
Shear Properties of Components Used in Stressed-Skin Panels, I. Robert Kliger and Patrick J. Pellicane, MT May 96, p77-82.

Pavement design
AASHTO Layer Coefficients for Cement-Stabilized Soil Bases, David N. Richardson, MT May 96, p83-87.

Pavements
Mechanistic Evaluation of Fly Ash Asphalt Concrete Mixtures, N. Ali, J. S. Chan, S. Simms, R. Bushman and A. T. Bergan, MT Feb. 96, p19-25.

Performance of Hot Mix Asphalt Using Coarse and Skip Graded Aggregates, Moses Karakouzian, Michael R. Dunning, Robert L. Dunning and Jerold D. Stegeman, MT May 96, p101-107.

Performance evaluation
Mechanistic Evaluation of Fly Ash Asphalt Concrete Mixtures, N. Ali, J. S. Chan, S. Simms, R. Bushman and A. T. Bergan, MT Feb. 96, p19-25.

Performance of Hot Mix Asphalt Using Coarse and Skip Graded Aggregates, Moses Karakouzian, Michael R. Dunning, Robert L. Dunning and Jerold D. Stegeman, MT May 96, p101-107.

Performance of Repair Materials Exposed to Fluctuation of Temperature, A. S. Al-Gahtani, Rasheeduzzafar and A. A. Al-Mussallam, MT Feb. 95, p9-18.

Permeability
Experimental Study of Durability of Reactive Powder Concretes, N. Roux, C. Andrade and M. A. Sanjuan, MT Feb. 96, p1-6.

Phosphoric acid
Microstructural and Phase Characteristics of Phosphogypsum-Cement Mixtures, Amitava Roy, Ramesh Kalvakaalva and Roger K. Seals, MT Feb. 96, p11-18.

Resilient Modulus of Cement-Stabilized Phosphogypsum, M. I. Pericleous and J. B. Metcalf, MT Feb. 96, p7-10.

Pipe lining
Buckling Behavior of Polyethylene Liner System, Surya Chunduru, Michael E. Barber and Reda M. Bakeer, MT Nov. 96, p201-206.

Pipelines
Buckling Behavior of Polyethylene Liner System, Surya Chunduru, Michael E. Barber and Reda M. Bakeer, MT Nov. 96, p201-206.

Effect of Welding on a High-Density Polyethylene Liner, Reda M. Bakeer and Michael E. Barber, MT May 96, p94-100.

Polyethylene
Buckling Behavior of Polyethylene Liner System, Surya Chunduru, Michael E. Barber and Reda M. Bakeer, MT Nov. 96, p201-206.

Effect of Welding on a High-Density Polyethylene Liner, Reda M. Bakeer and Michael E. Barber, MT May 96, p94-100.

Pore pressure
Moisture-Induced Pressures in Concrete Airfield Pavements, C. A. Kodres, MT Feb. 96, p41-50.

Pore size distribution
Artificial Neural Networks and Durability of Sphinx Limestone, Jayanta K. Bandyopadhyay, Srinivas S. Yerrapragada and K. Lal Gauri, MT Aug. 95, p174-177.

Porosity
Experimental Study of Durability of Reactive Powder Concretes, N. Roux, C. Andrade and M. A. Sanjuan, MT Feb. 96, p1-6.

Probability distribution
Investigation of Structural Properties of Used Formwork Stringers, Saeed Karshenas and Eyad Mizian, MT Feb. 96, p51-56.

Protective coatings
Influence of Coatings on Bar-Concrete Bond, Protasio F. Castro, MT Nov. 96, p212-214.

Pull-out resistance
Bond and Slip of Plain Rebars in Concrete, Y. L. Mo and J. Chan, MT Nov. 96, p208-211.

Pultrusion
Compression Strength of Pultruded Flat Sheet Material, J. T. Mottram, MT May 94, p185-200.

Rehabilitation
Effect of Welding on a High-Density Polyethylene Liner, Reda M. Bakeer and Michael E. Barber, MT May 96, p94-100.

Resilience
Resilient Modulus of Cement-Stabilized Phosphogypsum, M. I. Pericleous and J. B. Metcalf, MT Feb. 96, p7-10.

Resins
Performance of Repair Materials Exposed to Fluctuation of Temperature, A. S. Al-Gahtani, Rasheeduzzafar and A. A. Al-Mussallam, MT Feb. 95, p9-18.

Resistance
Frost Resistance of Roller-Compacted High-Volume Fly Ash Concrete, Michael Pigeon and V. Mohan Malhotra, MT Nov. 95, p208-211.

Rheological properties
Laboratory Aging Methods for Simulation of Field Aging of Asphalts, Shin-Che Huang, Mang Tia and Byron E. Ruth, MT Aug. 96, p147-152.

Roller compacted concrete
Frost Resistance of Roller-Compacted High-Volume Fly Ash Concrete, Michael Pigeon and V. Mohan Malhotra, MT Nov. 95, p208-211.

Rubber modified asphalt
Viscosity Characteristics of Rubber-Modified Asphalts, T. J. Lougheed and A. T. Papagiannakis, MT Aug. 96, p153-156.

Salts
Effect of Temperature and Salt Contamination on Carbonation of Cements, Mohammed Maslehuddin, C. L. Page and Rasheeduzzafar, MT May 96, p63-69.

Shear modulus
Investigation of Structural Properties of Used Formwork Stringers, Saeed Karshenas and Eyad Mizian, MT Feb. 96, p51-56.

Shear strength
Investigation of Structural Properties of Used Formwork Stringers, Saeed Karshenas and Eyad Mizian, MT Feb. 96, p51-56.

Shear stress
Shear Properties of Components Used in Stressed-Skin Panels, I. Robert Kliger and Patrick J. Pellicane, MT May 96, p77-82.

Sheets
Compression Strength of Pultruded Flat Sheet Material, J. T. Mottram, MT May 94, p185-200.

Silica
Resistance of Silica-Fume Concrete to Corrosion-Related Damage, Safwan A. Khedr and Ahmed F. Idriss, MT May 95, p102-107.

Slabs
Effect of Reinforcement Corrosion on Flexural Behavior of Concrete Slabs, Abdullah A. Almusallam, Ahmad S. Al-Gahtani, Abdur Rauf Aziz, Fahd H. Dakhil and Rasheeduzzafar, MT Aug. 96, p123-127.

Slag
Boltzmann-Matano Analysis of Chloride Diffusion into Blended Cement Concrete, P. J. Tumidajski and G. W. Chan, MT Nov. 96, p195-200.

Slip
Bond and Slip of Plain Rebars in Concrete, Y. L. Mo and J. Chan, MT Nov. 96, p208-211.

Shear Properties of Components Used in Stressed-Skin Panels, I. Robert Kliger and Patrick J. Pellicane, MT May 96, p77-82.

Soil cement
AASHTO Layer Coefficients for Cement-Stabilized Soil Bases, David N. Richardson, MT May 96, p83-87.

Soil layers
AASHTO Layer Coefficients for Cement-Stabilized Soil Bases, David N. Richardson, MT May 96, p83-87.

Stabilization
AASHTO Layer Coefficients for Cement-Stabilized Soil Bases, David N. Richardson, MT May 96, p83-87.

Microstructural and Phase Characteristics of Phosphogypsum-Cement Mixtures, Amitava Roy, Ramesh Kalvakaalva and Roger K. Seals, MT Feb. 96, p11-18.

Resilient Modulus of Cement-Stabilized Phosphogypsum, M. I. Pericleous and J. B. Metcalf, MT Feb. 96, p7-10.

State-of-the-art reviews
Viscosity Characteristics of Rubber-Modified Asphalts, T. J. Lougheed and A. T. Papagiannakis, MT Aug. 96, p153-156.

Statistical analysis
Compression Strength of Pultruded Flat Sheet Material, J. T. Mottram, MT May 94, p185-200.

Influence of Coatings on Bar-Concrete Bond, Protasio F. Castro, MT Nov. 96, p212-214.

Steel
Composite Action of Foamed and Lightweight Aggregate Concrete, Yasser M. Hunaiti, MT Aug. 96, p111-113.

Mechanical Properties of Reinforcing and Prestressing Steels after Heating, I. Cabrita Neves, João Paulo C. Rodrigues and António de Pádua Loureiro, MT Nov. 96, p189-194.

Nonstructural Evaluation of Competing Bridge Materials, Robert L. Smith and Robert J. Bush, MT May 96, p88-93.

Strain
Mechanical Properties of Reinforcing and Prestressing Steels after Heating, I. Cabrita Neves, João Paulo C. Rodrigues and António de Pádua Loureiro, MT Nov. 96, p189-194.

Strength
Artificial Neural Networks and Durability of Sphinx Limestone, Jayanta K. Bandyopadhyay, Srinivas S. Yerrapragada and K. Lal Gauri, MT Aug. 95, p174-177.

Investigation of Lignite-Based Bottom Ash for Structural Concrete, Nader Ghafoori and Jeffrey Bucholc, MT Aug. 96, p128-137.

Stress strain relations
Experimental Observation of Microstructural Behavior of Concrete, Ahmed M. Farahat, Masashi Kawakami and Tada-aki Tanabe, MT May 95, p87-95.

New Damage Variable in Failure Analysis of Concrete, Woon-Kwong Yip, MT Nov. 96, p184-188.

Stress-Strain Relationship of High-Strength Concrete in Compression, T. H. Wee, M. S. Chin and M. A. Mansur, MT May 96, p70-76.

Stress-strain curves
Stress-Strain Relationship of High-Strength Concrete in Compression, T. H. Wee, M. S. Chin and M. A. Mansur, MT May 96, p70-76.

Structure reinforcement
Bond and Slip of Plain Rebars in Concrete, Y. L. Mo and J. Chan, MT Nov. 96, p208-211.

Temperature
Laboratory Aging Methods for Simulation of Field Aging of Asphalts, Shin-Che Huang, Mang Tia and Byron E. Ruth, MT Aug. 96, p147-152.

Temperature effects
Effect of Temperature and Galvanization on Cold-Formed Steel, A. B. Abdel-Rahim and D. Polyzois, MT Aug. 96, p114-122.

Effect of Temperature and Salt Contamination on Carbonation of Cements, Mohammed Maslehuddin, C. L. Page and Rasheeduzzafar, MT May 96, p63-69.

Performance of Repair Materials Exposed to Fluctuation of Temperature, A. S. Al-Gahtani, Rasheeduzzafar and A. A. Al-Mussallam, MT Feb. 95, p9-18.

Viscosity Characteristics of Rubber-Modified Asphalts, T. J. Lougheed and A. T. Papagiannakis, MT Aug. 96, p153-156.

Tensile strength

Mechanical Properties of Reinforcing and Prestressing Steels after Heating, I. Cabrita Neves, João Paulo C. Rodrigues and António de Pádua Loureiro, MT Nov. 96, p189-194.

Testing

Resistance of Silica-Fume Concrete to Corrosion-Related Damage, Safwan A. Khedr and Ahmed F. Idriss, MT May 95, p102-107.

Thermal analysis

Microstructural and Phase Characteristics of Phosphogypsum-Cement Mixtures, Amitava Roy, Ramesh Kalvakaalva and Roger K. Seals, MT Feb. 96, p11-18.

Timbers

Nonstructural Evaluation of Competing Bridge Materials, Robert L. Smith and Robert J. Bush, MT May 96, p88-93.

Universities

Editorial, Victor C. Li, MT Nov. 96, p183.

Viscosity

Viscosity Characteristics of Rubber-Modified Asphalts, T. J. Lougheed and A. T. Papagiannakis, MT Aug. 96, p153-156.

Waste utilization

Resilient Modulus of Cement-Stabilized Phosphogypsum, M. I. Pericleous and J. B. Metcalf, MT Feb. 96, p7-10.

Water content

Flash-Setting Lightweight Material—A First Step to Floating Island Construction, Sumio Horiuchi, Noburu Uchiyama, Takuro Odawara and Kazuya Yasuhara, MT Aug. 96, p138-146.

Investigation of Lignite-Based Bottom Ash for Structural Concrete, Nader Ghafoori and Jeffrey Bucholc, MT Aug. 96, p128-137.

Weathering

Artificial Neural Networks and Durability of Sphinx Limestone, Jayanta K. Bandyopadhyay, Srinivas S. Yerrapragada and K. Lal Gauri, MT Aug. 95, p174-177.

Welding

Effect of Welding on a High-Density Polyethylene Liner, Reda M. Bakeer and Michael E. Barber, MT May 96, p94-100.

Wood

Investigation of Structural Properties of Used Formwork Stringers, Saeed Karshenas and Eyad Mizian, MT Feb. 96, p51-56.

Wooden structures

Shear Properties of Components Used in Stressed-Skin Panels, I. Robert Kliger and Patrick J. Pellicane, MT May 96, p77-82.

AUTHOR INDEX

Abdel-Rahim, A. B.
Effect of Temperature and Galvanization on Cold-Formed Steel, with D. Polyzois, MT Aug. 96, p114-122

Al-Gahtani, A. S.
Performance of Repair Materials Exposed to Fluctuation of Temperature, with Rasheeduzzafar and A. A. Al-Mussallam, MT Feb. 95, p9-18
disc: James Warner, MT Aug. 96, p176-177
clo: MT Aug. 96, p177

Al-Gahtani, Ahmad S.
see Almusallam, Abdullah A., MT Aug. 96, p123-127

Ali, N.
Mechanistic Evaluation of Fly Ash Asphalt Concrete Mixtures, with J. S. Chan, S. Simms, R. Bushman and A. T. Bergan, MT Feb. 96, p19-25

Almusallam, Abdullah A.
Effect of Reinforcement Corrosion on Flexural Behavior of Concrete Slabs, with Ahmad S. Al-Gahtani, Abdur Rauf Aziz, Fahd H. Dakhil and Rasheeduzzafar, MT Aug. 96, p123-127

Al-Mussallam, A. A.
see Al-Gahtani, A. S., MT Feb. 95, p9-18

Andrade, C.
see Roux, N., MT Feb. 96, p1-6

Aziz, Abdur Rauf
see Almusallam, Abdullah A., MT Aug. 96, p123-127

Bakeer, Reda M.
Effect of Welding on a High-Density Polyethylene Liner, with Michael E. Barber, MT May 96, p94-100
see Chunduru, Surya, MT Nov. 96, p201-206

Bandyopadhyay, Jayanta K.
Artificial Neural Networks and Durability of Sphinx Limestone, with Srinivas S. Yerrapragada and K. Lal Gauri, MT Aug. 95, p174-177
disc: Yacoub M. Najjar and Imad A. Basheer, MT Aug. 96, p179
clo: MT Aug. 96, p179-180

Barber, Michael E.
see Bakeer, Reda M., MT May 96, p94-100
see Chunduru, Surya, MT Nov. 96, p201-206

Basheer, Imad A.
see Najjar, Yacoub M., (disc), MT Aug. 95, p174-177

Bergan, A. T.
see Ali, N., MT Feb. 96, p19-25

Brown, E. Ray
Significance of Tests for Highway Materials, with P. S. "Ken" Kandhal, Dah Yinn Lee and K. Wayne Lee, MT Feb. 96, p26-40

Bucholc, Jeffrey
see Ghafoori, Nader, MT Aug. 96, p128-137

Bush, Robert J.
see Smith, Robert L., MT May 96, p88-93

Bushman, R.
see Ali, N., MT Feb. 96, p19-25

Castro, Protasio F.
Influence of Coatings on Bar-Concrete Bond, MT Nov. 96, p212-214

Chan, G. W.
see Tumidajski, P. J., MT Nov. 96, p195-200

Chan, J.
see Mo, Y. L., MT Nov. 96, p208-211

Chan, J. S.
see Ali, N., MT Feb. 96, p19-25

Chang, C.-T.
Behavior of Marble under Compression, with P. Monteiro, K. Nemati and K. Shyu, MT Aug. 96, p157-170

Chin, M. S.
see Wee, T. H., MT May 96, p70-76

Chunduru, Surya
Buckling Behavior of Polyethylene Liner System, with Michael E. Barber and Reda M. Bakeer, MT Nov. 96, p201-206

Dakhil, Fahd H.
see Almusallam, Abdullah A., MT Aug. 96, p123-127

Dunning, Michael R.
see Karakouzian, Moses, MT May 96, p101-107

Dunning, Robert L.
see Karakouzian, Moses, MT May 96, p101-107

Farahat, Ahmed M.
Experimental Observation of Microstructural Behavior of Concrete, with Masashi Kawakami and Tada-aki Tanabe, MT May 95, p87-95
disc: Bryant Mather, MT May 96, p109

Gauri, K. Lal
see Bandyopadhyay, Jayanta K., MT Aug. 95, p174-177

Ghafoori, Nader
Investigation of Lignite-Based Bottom Ash for Structural Concrete, with Jeffrey Bucholc, MT Aug. 96, p128-137

Hjelmstad, K. D.
Mathematical Model for Durability of Cladding, with D. A. Lange, I. D. Parsons and F. V. Lawrence, MT Aug. 96, p172-174

Horiuchi, Sumio
Flash-Setting Lightweight Material—A First Step to Floating Island Construction, with Noburu Uchiyama, Takuro Odawara and Kazuya Yasuhara, MT Aug. 96, p138-146

Huang, Shin-Che
Laboratory Aging Methods for Simulation of Field Aging of Asphalts, with Mang Tia and Byron E. Ruth, MT Aug. 96, p147-152

Hunaiti, Yasser M.
Composite Action of Foamed and Lightweight Aggregate Concrete, MT Aug. 96, p111-113

Idriss, Ahmed F.
see Khedr, Safwan A., MT May 95, p102-107

Kalvakaalva, Ramesh
see Roy, Amitava, MT Feb. 96, p11-18

Kandhal, P. S. "Ken"
see Brown, E. Ray, MT Feb. 96, p26-40

Karakouzian, Moses
Performance of Hot Mix Asphalt Using Coarse and Skip Graded Aggregates, with Michael R. Dunning, Robert L. Dunning and Jerold D. Stegeman, MT May 96, p101-107

Karshenas, Saeed
Investigation of Structural Properties of Used Formwork Stringers, with Eyad Mizian, MT Feb. 96, p51-56

Kawakami, Masashi
see Farahat, Ahmed M., MT May 95, p87-95

Khedr, Safwan A.
Resistance of Silica-Fume Concrete to Corrosion-Related Damage, with Ahmed F. Idriss, MT May 95, p102-107
disc: David B. McDonald, MT Aug. 96, p177-178
clo: MT Aug. 96, p178-179

Kliger, I. Robert
Shear Properties of Components Used in Stressed-Skin Panels, with Patrick J. Pellicane, MT May 96, p77-82

Kodres, C. A.
Moisture-Induced Pressures in Concrete Airfield Pavements, MT Feb. 96, p41-50

Lange, D. A.
see Hjelmstad, K. D., MT Aug. 96, p172-174

Lawrence, F. V.
see Hjelmstad, K. D., MT Aug. 96, p172-174

Lee, Dah Yinn
see Brown, E. Ray, MT Feb. 96, p26-40

Lee, K. Wayne
see Brown, E. Ray, MT Feb. 96, p26-40

Li, Victor C.
Editorial, MT Nov. 96, p183

Lougheed, T. J.
Viscosity Characteristics of Rubber-Modified Asphalts, with A. T. Papagiannakis, MT Aug. 96, p153-156

Loureiro, António de Pádua
see Neves, I. Cabrita, MT Nov. 96, p189-194

Malhotra, V. Mohan
see Pigeon, Michael, MT Nov. 95, p208-211

Mansur, M. A.
see Wee, T. H., MT May 96, p70-76

Maslehuddin, Mohammed
Effect of Temperature and Salt Contamination on Carbonation of Cements, with C. L. Page and Rasheeduzzafar, MT May 96, p63-69

Mather, Bryant
disc. (of Experimental Observation of Microstructural Behavior of Concrete, by Ahmed M. Farahat, Masashi Kawakami and Tada-aki Tanabe, MT May 95, p87-95), MT May 96, p109
disc. (of Frost Resistance of Roller-Compacted High-Volume Fly Ash Concrete, by Michael Pigeon and V. Mohan Malhotra, MT Nov. 95, p208-211), MT Nov. 96, p216

McDonald, David B.
disc. (of Resistance of Silica-Fume Concrete to Corrosion-Related Damage, by Safwan A. Khedr and Ahmed F. Idriss, MT May 95, p102-107), MT Aug. 96, p177-178

Metcalf, J. B.
see Pericleous, M. I., MT Feb. 96, p7-10

Mizian, Eyad
see Karshenas, Saeed, MT Feb. 96, p51-56

Mo, Y. L.
Bond and Slip of Plain Rebars in Concrete, with J. Chan, MT Nov. 96, p208-211

Monteiro, P.
see Chang, C.-T., MT Aug. 96, p157-170

Mottram, J. T.
Compression Strength of Pultruded Flat Sheet Material, MT May 94, p185-200
disc: G. J. Turvey, MT Feb. 96, p58-60
clo: MT Feb. 96, p60-61

Najjar, Yacoub M.
disc. (of Artificial Neural Networks and Durability of Sphinx Limestone, by Jayanta K. Bandyopadhyay, Srinivas S. Yerrapragada and K. Lal Gauri, MT Aug. 95, p174-177) with Imad A. Basheer, MT Aug. 96, p179

Nemati, K.
see Chang, C.-T., MT Aug. 96, p157-170

Neves, I. Cabrita
Mechanical Properties of Reinforcing and Prestressing Steels after Heating, with João Paulo C. Rodrigues and António de Pádua Loureiro, MT Nov. 96, p189-194

Odawara, Takuro
see Horiuchi, Sumio, MT Aug. 96, p138-146

Page, C. L.
see Maslehuddin, Mohammed, MT May 96, p63-69

Papagiannakis, A. T.
see Lougheed, T. J., MT Aug. 96, p153-156

Parsons, I. D.
see Hjelmstad, K. D., MT Aug. 96, p172-174

Pellicane, Patrick J.
see Kliger, I. Robert, MT May 96, p77-82

Pericleous, M. I.
Resilient Modulus of Cement-Stabilized Phosphogypsum, with J. B. Metcalf, MT Feb. 96, p7-10

Pigeon, Michael
Frost Resistance of Roller-Compacted High-Volume Fly Ash Concrete, with V. Mohan Malhotra, MT Nov. 95, p208-211
disc: Bryant Mather, MT Nov. 96, p216
clo: MT Nov. 96, p216

Polyzois, D.
see Abdel-Rahim, A. B., MT Aug. 96, p114-122

Rasheeduzzafar
see Al-Gahtani, A. S., MT Feb. 95, p9-18
see Almusallam, Abdullah A., MT Aug. 96, p123-127
see Maslehuddin, Mohammed, MT May 96, p63-69

Richardson, David N.
AASHTO Layer Coefficients for Cement-Stabilized Soil Bases, MT May 96, p83-87

Rodrigues, João Paulo C.
see Neves, I. Cabrita, MT Nov. 96, p189-194

Roux, N.
Experimental Study of Durability of Reactive Powder Concretes, with C. Andrade and M. A. Sanjuan, MT Feb. 96, p1-6

Roy, Amitava
Microstructural and Phase Characteristics of Phospho-gypsum-Cement Mixtures, with Ramesh Kalvakaalva and Roger K. Seals, MT Feb. 96, p11-18

Ruth, Byron E.
see Huang, Shin-Che, MT Aug. 96, p147-152

Sanjuan, M. A.
see Roux, N., MT Feb. 96, p1-6

Seals, Roger K.
see Roy, Amitava, MT Feb. 96, p11-18

Shyu, K.
see Chang, C.-T., MT Aug. 96, p157-170

Simms, S.
see Ali, N., MT Feb. 96, p19-25

Smith, Robert L.
Nonstructural Evaluation of Competing Bridge Materials, with Robert J. Bush, MT May 96, p88-93

Stegeman, Jerold D.
see Karakouzian, Moses, MT May 96, p101-107

Tanabe, Tada-aki
see Farahat, Ahmed M., MT May 95, p87-95

Tia, Mang
see Huang, Shin-Che, MT Aug. 96, p147-152

Tumidajski, P. J.
Boltzmann-Matano Analysis of Chloride Diffusion into Blended Cement Concrete, with G. W. Chan, MT Nov. 96, p195-200

Turvey, G. J.
disc. (of Compression Strength of Pultruded Flat Sheet Material, by J. T. Mottram, MT May 94, p185-200), MT Feb. 96, p58-60

Uchiyama, Noburu
see Horiuchi, Sumio, MT Aug. 96, p138-146

Warner, James
disc. (of Performance of Repair Materials Exposed to Fluctuation of Temperature, by A. S. Al-Gahtani, Rasheeduzzafar and A. A. Al-Mussallam, MT Feb. 95, p9-18), MT Aug. 96, p176-177

Wee, T. H.
Stress-Strain Relationship of High-Strength Concrete in Compression, with M. S. Chin and M. A. Mansur, MT May 96, p70-76

Yasuhara, Kazuya
see Horiuchi, Sumio, MT Aug. 96, p138-146

Yerrapragada, Srinivas S.
see Bandyopadhyay, Jayanta K., MT Aug. 95, p174-177

Yip, Woon-Kwong
New Damage Variable in Failure Analysis of Concrete, MT Nov. 96, p184-188